UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

22434

7590

02/17/2004

BEYER WEAVER & THOMAS LLP P.O. BOX 778 BERKELEY, CA 94704-0778 EXAMINER

MOHANDESI, IRAJ A

PAPER NUMBER

2834

ART UNIT

DATE MAILED: 02/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,795	01/18/2002	Douglas C. Watson	NIKOP013/PA0251	4272

TITLE OF INVENTION: METHOD AND APPARATUS FOR COOLING POWER SUPPLY WIRES USED TO DRIVE STAGES IN ELECTRON BEAM LITHOGRAPHY MACHINES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing n applications filed n r after Dec. 12, 1980 may require payment f maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION N	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/053,795		01/18/2002	Douglas C. Watson	NIKOP013/PA0251	251 4272	
22434	7590	02/17/2004		EXAMINER		
BEYER WEAVER & THOMAS LLP P.O. BOX 778			MOHANDESI, IRAJ A			
BERKELEY		0778		ART UNIT	PAPER NUMBER	
	,			2834		
				DATE MAILED: 02/17/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 17 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 17 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), t: Mail

Mail Stop ISSUE FEE
Commissi ner for Patents
P.O. B x 1450
Alexandria, Virginia 22313-1450

(703) 746-4000 r <u>Fax</u>

INSTRUCTIONS: This for appropriate. All further conindicated unless corrected by maintenance fee notification	rm should be used for trans respondence including the P below or directed otherwise is.	mitting the ISSU atent, advance ord in Block 1, by (a)	E FEE and PUE ders and notifical specifying a ne	ELICATION FEE (if rection of maintenance fees w correspondence address	quired). Blocks 1 through 4 s will be mailed to the current ss; and/or (b) indicating a sep	should be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENC	E ADDRESS (Note: Legibly mark-up	with any corrections or	use Block ()	papers. Each additio	of mailing can only be used finis certificate cannot be used nal paper, such as an assignmate of mailing or transmission.	ent or formal drawing, mus
BEYER WEAVE P.O. BOX 778 BERKELEY, CA 9	ER & THOMAS LLP 94704-0778	•		I hereby certify that States Postal Service addressed to the M	this Fee(s) Transmittal is being with sufficient postage for final Stop ISSUE FEE address SPTO, on the date indicated be	ng deposited with the United rst class mail in an envelope above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	F	FIRST NAMED IN	VENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,795	01/18/2002		Douglas C. W	atson	NIKOP013/PA0251	4272
TITLE OF INVENTION: M MACHINES	IETHOD AND APPARATU	S FOR COOLING	POWER SUPP	LY WIRES USED TO D	RIVE STAGES IN ELECTRO	N BEAM LITHOGRAPHY
APPLN. TYPE	SMALL ENTITY	ISSUE FE	SE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$300	\$1630	05/17/2004
EXAM	IINER	ART UNI	IT	CLASS-SUBCLASS	7	
MOHANDE	ESI, IRAJ A	2834	<u></u>	310-012000	-	
Address form PTO/SB/12 "Fee Address" indication PTO/SB/47; Rev 03-02 of Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless	on (or "Fee Address" Indication more recent) attached. Use RESIDENCE DATA TO BI an assignee is identified below to the USPTO or is being stated.	on form of a Customer E PRINTED ON Tow, no assignee daubmitted under sep	firm (having agent) and the attorneys or a will be printed. THE PATENT (prata will appear or parate cover. Con	int or type) the patent, Inclusion of	d attorney or 2 stered patent ted, no name 3 assignee data is only appropr OT a substitute for filing an ass	iate when an assignment has
	assignee category or categor			-	corporation or other private g	group entity governmen
4a. The following fee(s) are ☐ Issue Fee	enclosed:		. Payment of Fee	(s): e amount of the fee(s) is e	enclosed	
☐ Publication Fee				redit card. Form PTO-203		
☐ Advance Order - # of	Copies		☐ The Director		charge the required fee(s), or	credit any overpayment, to
Director for Patents is reques	sted to apply the Issue Fee an	d Publication Fee			l issue fee to the application id	entified above.
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and other than the applicant; interest as shown by the re-	d Publication Fee (if require a registered attorney or age cords of the United States Par	ed) will not be account; or the assigned	cepted from any ee or other party k Office.	one in		
obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark (22313-1450. DO NOT S	tion is required by 37 CFR by the public which is to fill is governed by 35 U.S.C. 12 tes to complete, including gam to the USPTO. Time will the amount of time you re his burden, should be sent to Office, U.S. Department of END FEES OR COMPLET for Patents, Alexandria, Virg	le (and by the US 22 and 37 CFR 1.1 thering, preparing, I vary depending equire to complet to the Chief Inform of Commerce, A TED FORMS TO	PTO to process) 4. This collection, and submitting upon the individual term and the this form and the third officer, Lackandria. Virginal collections are the collections of the collections are the collections of the collections of the collections are the collections of the coll	an n is the ual l/or l.S. nia	•	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

	Application No.	Applicant(s)	<u> </u>			
	Application 190.	, applicating)	!			
Notice of Allowability	10/053,795	WATSON, DOUGLAS	C.			
INDUCE OF AHOMADIIILY	Examin r	Art Unit				
·	Iraj A Mohandesi	2834				
The MAILING DATE f this communicati n appeal of the series of allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comparing (GHTS). This application is	in this application. If not included nunication will be mailed in due cor	urse. THIS			
1. This communication is responsive to 11/04/2003.)			
2. The allowed claim(s) is/are <u>1-25,27-38</u> .						
3. The drawings filed on 18 January 2002 are accepted by th	e Examiner.					
 4. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 	ier 35 U.S.C. § 119(a)-(d)	or (f).				
 Certified copies of the priority documents have 	been received.					
2. Certified copies of the priority documents have	been received in Applica	tion No				
 Copies of the certified copies of the priority do- International Bureau (PCT Rule 17.2(a)). 	cuments have been receiv	ved in this national stage application	n from the			
* Certified copies not received:						
5. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. § 119(e) (i	o a provisional application).				
(a) The translation of the foreign language provisional a	application has been recei	ved.				
6. Acknowledgment is made of a claim for domestic priority up	nder 35 U.S.C. §§ 120 an	d/or 121.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this application. THIS TH	IREE-MONTH PERIOD IS NOT EX	KTENDABLE.			
7. A SUBSTITUTE OATH OR DECLARATION must be subminification (PTO-152) which gives reas			TICE OF			
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No 						
(b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner.						
(c) (c) including changes required by the attached Examiner	's Amendment / Commen	t or in the Office action of Paper No	D			
Identifying indicia such as the application number (see 37 CFR 1 each sheet.	.84(c)) should be written o	n the drawings in the front (not the b	ack) of			
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR 1	osit of BIOLOGICAL MATHE DEPOSIT OF BIOLO	TERIAL must be submitted. No GICAL MATERIAL.	te the			
Attachment(s)						
1 ☐ Notice of References Cited (PTO-892)3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		e of Informal Patent Application (Priew Summary (PTO-413), Paper N				
 5⊠ Information Disclosure Statements (PTO-1449), Paper No. <u>1</u> 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 		iner's Amendment/Comment iner's Statement of Reasons for Al	lowance			

Application/Control Number: 10/053,795

Art Unit: 2834

DETAILED ACTION

Allowable Subject Matter

- 1. The following is an examiner's statement of reasons for allowance:
- 2. claims 1,25 and 27 have been amended ,claim 26 has been canceled , claims 29-38 have been added,

The prior art of the record in particular **Haditsch'845** does not teach or suggest a supporting structure for an electron beam projection including inter alia, a coolant jacket which includes coolant return lines for allowing the coolant to flow out of the coolant jacket, a process chamber including electrical leads for supplying electrical current to systems contained within the process chamber, and wherein the electrical leads pass through the coolant return lines.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Communication

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is (703)305-3242. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Burton Mullins can be reached on 703-305-7063. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Art Unit: 2834

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-0377.

Im December 23, 2003

Nicholas Ponomarenko
Primary Examiner
Technology Center 2800